



NEW SHEET

Figure 2

T7 promoter

AGATCTCGATCCCGCGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCC

RBS

TCTAGAAATAATTTTGTTTAACTTTAAGAAGGAGATATACC

NdeI

ATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCGGCAGCCATATGGGATCC

GG

M G S S H H H H H S S G L V P R G S H M -----

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StuI SalI

AATTCAAAGGCCTACGTCGACTAGAGCCTGCAGTCTCGACCATCATCATCATCATTAATAAAAGGG

CG

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SpeI BamHI

AATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGGCTGCTAACAAAGCCCGAAAGGAAGCTGAGTT

GG

IVEX-3 Primer

Bpu1102 I

T7 terminator

CTGCTGCCACCGCTGAGCAATAACTAGCATAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTT

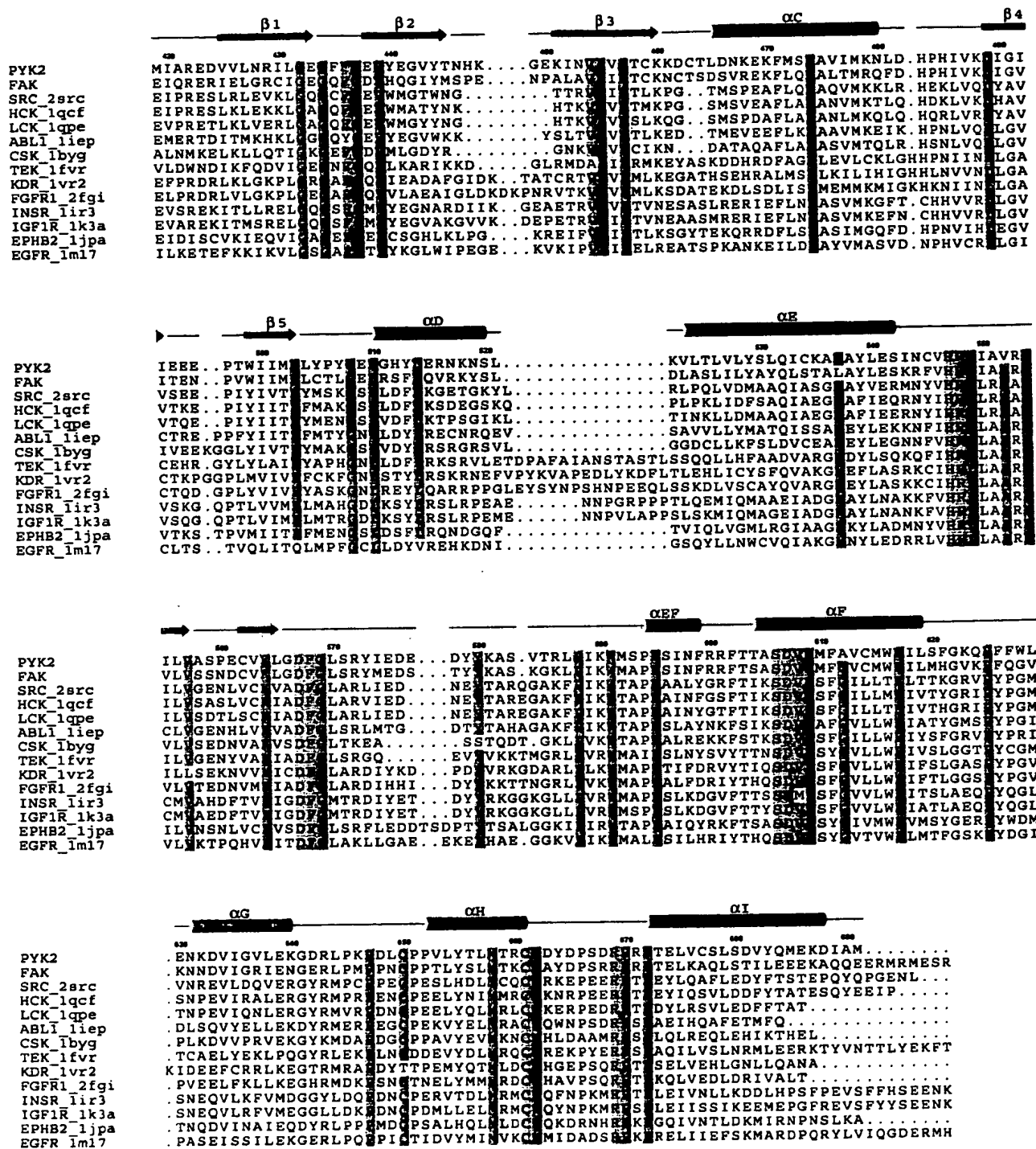
TG

3'-PET Primer

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NEW SHEET

Figure 3



NEW SHEET

Figure 4

4A:

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1  MGSSHHHHHH SSGLVPRGSH MIAREDVVLN RILGEGFFGE VYEGVYTNHK GEKINVAVKT
61 CKKDCTLDNK EKFMSEAVIM KNLDHPHIVK LIGTIEEPT WIIMELYPYG ELGHYLERNK
121 NSLKVLTLVL YSLQICKAMA YLESINCVHR DIAVRNILVA SPECVKLGDF GLSRYIEDDED
181 YYKASVTRL P IKWMSPE SIN FRRFTTASDV WMFAVCMWEI LSFQKQFFW LENKDVIGVL
241 EKGDRLPKPD LCPVLYTLM TRCWDYDPSD RPRFTELVC LSDVYQMEKD IAM
  
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4B:

PYK2-C1; 5'-TCCACAG CATATG ATTGCCCGTGAAGATGTGGT-3' 33 mer

4C:

PYK2-N2; TGGAGAAGGACATTGCCATG TAG GTCGAC GAGAG (Origin)
5'-CTCTC GTCGAC CTA CATGGCAATGTCCTTCTCCA-3' 34 mer

4D:

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                                TCTAGAAATAATTTTGTTTAACTTTAAGAAGGAGA
TATACCATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCGGCAGCCATATG
      attgcc cgtgaagatg
1381 tggtcctgaa tcgtattcctt ggggaaggct tttttgggga ggtctatgaa
ggtgtctaca
1441 caaatcacia aggggagaaa atcaatgtag ctgtcaagac ctgcaagaaa
gactgcactc
1501 tggacaacia ggagaagttc atgagcgagg cagtgatcat gaagaacctc
gaccaccgc
1561 acatcgtgaa gctgatcggc atcattgaag aggagccac ctggatcatc
atggaattgt
1621 atccctatgg ggagctgggc cactacctgg agcggaacia gaactccctg
aagtgctca
1681 cctcgtgct gtactcactg cagatatgca aagccatggc ctacctggag
agcatcaact
1741 gcgtgcacag ggacattgct gtccggaaca tcctgggtggc ctccctgag
tgtgtgaagc
1801 tgggggactt tggctcttcc cggtacattg aggacgagga ctattacaaa
gcctctgtga
1861 ctgctctccc catcaaatgg atgtcccccag agtccattaa cttccgacgc
ttcacgacag
1921 ccagtgcagt ctggatgttc gccgtgtgca tgtgggagat cctgagcttt
gggaagcagc
1981 ccttcttctg gctggagaac aaggatgtca tcgggggtgct ggagaaagga
gaccggctgc
2041 ccaagcctga tctctgtcca ccggctcttt ataccctcat gaccgctgc
tgggactacg
2101 accccagtga ccggccccgc ttcaccgagc tgggtgtgcag cctcagtgc
gtttatcaga
2161 tggagaagga cattgccatg
TAGGTCGACTAGAGCCTGCAGTCTCGACCATCATCATCATCATTAATAAAAGGGCG
AATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGGCTGCTAACAAAGCCCCGAAAGGAAGCTGAGTT
GG
  
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